

$\langle 1, 4 \rangle$ $\langle 16, 4 \rangle$ $\langle 2, 4 \rangle$ $\langle 5, 4 \rangle$ $\langle 5, 16 \rangle$ $\langle 5, 11 \rangle$
 $\langle 6, 11 \rangle$ $\langle 10, 11 \rangle$ $\langle 12, 11 \rangle$ $\langle 12, 24 \rangle$ $\langle 14, 24 \rangle$

~~if both lists are empty then return~~ (continues if the both lists have other elements otherwise stop)
~~if list1 is empty then return list2~~

2.

3 \rightarrow 2, 9, 10, 12, 13, 17, 19, 22, 25 length = 9

4 copy block \rightarrow 0 1 1 0 1 1 1 0 copies from 3
 length = 8 $\Rightarrow 9 - 8 = 1$

4 \rightarrow 5, 9, 10, 13, 16, 17, 19, 22

~~if both lists are empty then return~~
~~length = 6 $\Rightarrow 9 - 6 = 3$~~

5 \Rightarrow copy block \rightarrow 1 1 1 0 0 1 0 0 copies from 4
 length = 6 $\rightarrow 8 - 6 = 2$

5 \rightarrow 5, 9, 10, 17, 50

3. $A = \{1, 5, 7, 8\}$ $B = \{4, 5\}$ $C = \{5, 8, 9\}$

	A	B	C
P_1	1, 5, 7, 8	4, 5	5, 8, 9
P_2	2, 10, 3, 5	8, 10	10, 5, 7
P_3	3, 4, 10, 2	1, 4	4, 3, 5

~~P_1~~ $P_A = [1, 2, 2]$ $J(A, B) = 0/3$
 ~~P_2~~ $P_B = [4, 8, 1]$ $J(A, C) = 1/3$
 ~~P_3~~ $P_C = [5, 5, 2]$ $J(B, C) = 0/3$

4

1 $D = \{ \text{bass, bot, box, call, cat, cow} \}$

* \$b $\rightarrow 1, 2, 3$

* ba $\rightarrow 1$

* bs $\rightarrow 1$

* ss $\rightarrow 1$

* bo $\rightarrow 2, 3$

* ot $\rightarrow 2$

ox $\rightarrow 3$

sc $\rightarrow 4, 5$

ca $\rightarrow 4, 5$

al $\rightarrow 4$

el $\rightarrow 4$

at $\rightarrow 5$

co $\rightarrow 6$

ow $\rightarrow 6$

2

$S = \text{bata}$

\$b, ba, at, ta

\downarrow \downarrow \downarrow \downarrow
 $[1, 2, 3]$ $[1]$ $[5]$ $[-]$

$4 - 2 \cdot 2$

Since $L - 2k = 0$ all the strings are candidates ($\# \text{occurrences} \geq L - 2k$)

String	Occurrences
1	2
2	1
3	1
5	1

3

String	Occurrences
1	2
2	1
3	1
4	0
5	1
6	0

$$L - ek = 4 - 1 \cdot 2 = 2$$

\Rightarrow The string "bass" is the only candidate

4

$\langle 0, \text{bass} \rangle \langle 1, \text{ot} \rangle \langle 2, x \rangle$

First ~~block~~ page

$\langle 0, \text{cell} \rangle \langle 2, t \rangle \langle 1, \text{ow} \rangle$

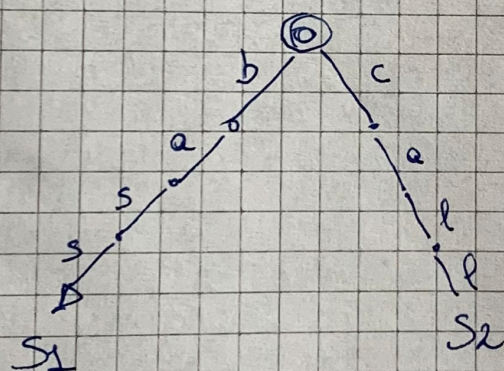
Second ~~block~~ page

S_1 pointer to $\langle 0, \text{bass} \rangle$

(start of the first page)

S_2 pointer to $\langle 0, \text{cell} \rangle$

(" record ")



↓ compacted form

